

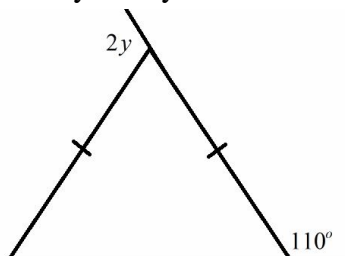
Problem Solving Week 6

Foundation:

The diagram below shows a triangle with two given exterior angles.

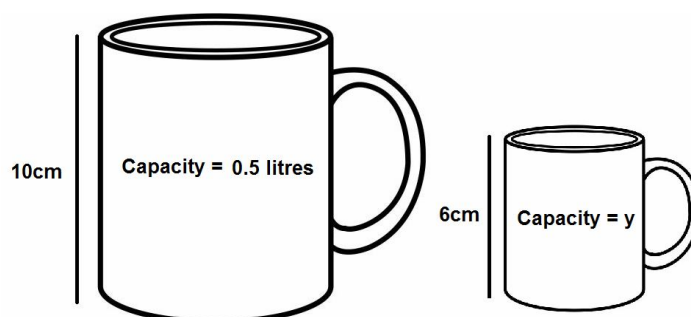
The sizes of the exterior angles are 110° and $2y$.

Find the value of y explaining clearly how you found the answer.



Higher:

Two similar mugs are shown below.



Given that $1\text{cm}^3 = 1\text{ml}$ and that tea costs £2.74 a litre, find the cost of filling the smaller mug with tea. Give your to the nearest penny.